

INTERNATIONAL SEARCH REPORT

International application No. PCT/US0s/19675

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) :H04L 7/00, 12/66, 12/28, 12/56; H04Q 7/20, 7/24; H04M 11/00,			
US CL :Please See Extra Sheet.			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)			
. U.S. : 455/433, 448, 449, 456.5, 406, 408, 408, 414.1, 445, 552, 585, 411, 432.2, 414.2			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields			
seerset, west			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
WLAN, PDP, UTMS,			
WEAR, IDI, CING,			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
A,E	US 2003/0119481 A1 (HAVERINEN et al.) 26 June 2003, ALL		1, 11
A,P	US 2002/0031160 A (GIBSON ANG el al.) 13 February 2003, ALL		12-18
A,P	US 2003/0014367 A1 (TUBINIS) 16 January 2003, ALL		1-18
A,P	US 2002/0168969 A1 (KOSKIENEN et al.) 14 November 2002, ALL		1-18
A,E	US 2003/0157937 A1 (OIKARINEN et al.) 21 August 2003, ALL		1-18
A,E	US2003/0171112 A1 (LUPPER et al.) 11 September 2003, ALL		1-18
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X Further documents are listed in the continuation of Box C. See patent family annex.			
Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand			
"A" document defining the general state of the art which is not considered the pri-		the principle or theory underlying th	e invention
uEa er	earlier document published on or after the international filing date "X" document of particular relevance; the classifier document of particular relevance relavance rel		ne claimed invention cannot be seed to involve an inventive step
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other		when the decument is taken alone "Y" decument of particular relevance; the claimed invention cannot be	
"O" de	ectal reason (as specified) comment referring to an oral disclosure, use, exhibition or other	omaidered to involve an inventive step with one or more other such door	when the document is combined ments, such combination being
"P" di	ceans comment published prior to the international filing date but later can the priority date claimed	obvious to a person skilled in the art "&" document member of the same patent family	
		Date of mailing of the international search report	
OS NOVEMBER 2003.		03 DEC 20	03
Name and mailing address of the ISA/US Authorized of		Authorized officer	
Commissioner of Patents and Trademarks Box PCT		NAGHMEH MEHREQUELY JOHNS JOHNS Telephone No. (705) 808-7155	
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A. CLASSIFICATION OF SUBJECT MATTER: US CL:		
455/433, 448, 449, 456.5, 406, 408, 403, 414.1, 445, 552, 555, 411, 432.2, 414.2, 435.1, 435.2, 554.2 370/338, 328, 401		
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